AgriSathi: An Agentic AI Advisor for Farmers' Decisions Anytime, Anywhere

Theme: Capital One Launchpad – Agriculture

Problem Statement

Indian farmers face fragmented, unreliable, and inaccessible information regarding weather, soil, pests, market prices, and government schemes. Poor digital access and multilingual barriers further limit their ability to make informed decisions, leading to financial risk and crop losses.

Solution Overview

AgriSathi is a multilingual AI-powered farming advisor that delivers real-time, hyperlocal, actionable insights to farmers via mobile apps, SMS, or IVR—even in low-connectivity areas. It uses Retrieval-Augmented Generation (RAG) to ground responses in factual public datasets, ensuring reliability, explainability, and trust.

Key Features

• Multilingual NLP with voice/text interface
• Fact-grounded AI with RAG pipeline
• Integration with public datasets (IMD, ICAR, Agmarknet, PM-Kisan, NABARD, FAO)
• Proactive weather, pest, and market alerts
• Accessible through mobile, SMS, and IVR for low digital literacy
• Offline fallback with lightweight inference

Impact

• Reduce crop losses through timely, data-driven decisions
• Increase farmer incomes with better market insights
• Make AI accessible to rural communities with limited internet access
• Scalable, modular, and adaptable for future domains (IoT, credit scoring, healthcare)

Future Scope

• Integration with IoT sensors and drones
• Personalized credit scoring and financial advisory
• Expansion to other sectors requiring hyperlocal AI solutions